

# ABSTRACT

There is provided an electron-emitting device of a field emission type,  
with which the spot size of an electron beam is small, an electron emission area is  
5 large, highly efficient electron emission is possible with a low voltage, and the  
manufacturing process is easy. The electron-emitting device includes a layer 2  
which is electrically connected to a cathode electrode 5, and a plurality of particles  
3 which contains a material having a resistivity lower than that of a material  
constituting the layer 2, and is wherein a density of particles 3 in the layer 2 is  $1 \times$   
10  $10^{14}/\text{cm}^3$  or more and  $5 \times 10^{18}/\text{cm}^3$  or less.

15

Canon\_Apps 1717896\_2.DOC